

PhaseIII practitioners views on code snippet quality

SN	Category	Description	Coding Unit	Meaning Unit	ParticipantsID_CommentSection_InterviewQuestion
1	Functionality	Practitioners perceive Functionality as an important metric in measuring the quality of code snippets. They believe that the snippets should solve the problem correctly and be separated into functional parts to solve specific aspects of the problem and straight to the point to avoid unnecessary components.	code snippet works	Users want to ensure that the code snippets works and solves the problem.	GN5BQn4,GN7AQn4,GN8BQn4,GN9BQn4,GN10CQn4,GN11AQn4,GN13Qn4,GN14CQn4,GN17BQn4,GN19AQn4,GN20Qn4,GN22BQn4,GN24BQn4,GN26Qn4,GN27BQn4,GN28Qn5,GN29BQn4,GN32CQn4,GN34CQn4,GN35CQn4,GN39BQn4,GN41CQn4,GN42EQn4,GN43BQn4,GN45AQn4,GN46CQn4,GN48BQn4
			functions	Users are after the part of the code snippet that achieves that particular function they are seeking and prefer separation of concerns	GN1AQn4,GN23DQn4,GN38BQn4,GN40BQn4,GN44AQn4,GN50BQn4
			right solution	Users want to ensure that the code snippets performs the job and produces the right solution.	GN12BQn4,GN12CQn5,GN18BQn4,GN25BQn4
2	Readability	Practitioners believe that readability is desired for improved code snippet quality. They also think that short comments and code logic explanations enhance the understandability of code. However, overly commented or compacted code snippets may decrease readability.	understand code snippet	Users look for code snippets with well explained logic that they can understand easily	GN4AQn7,GN5DQn4,GN9DQn4,GN15BQn4,GN19BQn5,GN22DQn4,GN23BQn4,GN23Qn5,GN29BQn4,GN29CQn4,GN29BQn5,GN34AFQn4,GN37GQn4,GN37DQn7,GN43AQn4,GN44BQn5,GN45CQn4,GN45AQn5,GN47AQn4,GN48AQn4
			readable code snippet	Users want readable code snippets in terms of more compact and maintainable.	GN11EQn4,GN12DQn4,GN12EQn5,GN17AQn4,GN19CQn4,GN24Qn5,GN35BQn4,GN36ACQn4,GN49BQn4,GN50AQn4
			code snippet comments	Users like code snippets to be commented reasonably.	GN5Qn8,GN7BQn4,GN10JQn4,GN12Qn7,GN14AQn4,GN23Qn7,GN24ACQn4,GN30Qn5,GN40EQn4,GN46CQn4,
3	Efficiency	Practitioners look for better code snippets in terms of execution time and space. However, users also find the more compact code snippets to be more efficient than verbose ones.	speed	Users look for efficient code snippets that will execute faster when the job is computationally intensive	GN2Qn5,GN7DQn4,GN8BQn5,GN8CQn4,GN12CQn4,GN14DQn4,GN18CQn4,GN21BQn5,GN22BQn5,GN23EQn4,GN29CQn4
			compact	Users think that the more compact code snippets are more efficient than the verbose codes.	GN1CQn4,GN1BQn5,GN10DQn4,GN12DQn5,GN22CQn4,GN30CQn4,GN34BEQn4,GN36EQn4,GN38CQn4,GN40CQn4,GN4
4	Security	Practitioners are cautious to avoid risky security-related code snippets that may introduce vulnerabilities, threats, security holes, or calls to harvest credentials.	security injection	Users lookout for code snippets may have security injections.	GN16CQn4,GN21DQn4,GN31AQn4,GN37EQn4,
			security hole	Users want to avoid code snippets that will make weird calls and introduce security holes in their project.	GN6EQn4,GN6GQn4,GN10AHQn4,GN34DQn4,GN37EQn4,GN38AQn4,GN39AQn4,GN40DQn4,GN41EQn4,GN42DQn4,GN46EQn4,GN49EQn4
5	Reliability	Practitioners want to ensure that code snippets are robust and work well within their particular context at all times and for all cases, including handling errors and exceptions.	code snippet work	Users want code snippets that works for all the use cases	GN7EQn4,GN7Qn8,GN10F1Qn4,GN16DQn4,GN19BQn4,GN21CQn4,GN23FQn4,GN29EQn4,GN32BQn4
			error handling	Users want reliable and robust solutions that also handle errors	GN31CQn4,GN37FQn4,GN41DQn4,
6	Reusability	Practitioners want code snippets in a form that can be callable, reusable or easily remodelled to address multiple instances. This also extends to ideas users can gain from addressing the problem to solve other related problems.			GN5CQn4,GN9EQn4,GN18EQn4,GN19EQn4,GN23GQn4,GN39DQn4,GN41EQn4,GN46FQn4,GN47BQn4,GN48BQn4
7	Maintainability	Practitioners mostly associate the Maintainability of code snippets with Readability metrics. They also want clear and elegant code with manageable libraries for easy maintenance in current and future updates.	easy to use	Users want clear and elegant code with manageable libraries for easy maintenance in current and future updates.	GN7Qn7,GN10EQn4,GN24DQn4,GN30DQn4,GN37CQn4,GN39CQn4,GN46BQn4
			ties	Users tie maintainability with readability metrics as well as others.	GN6BDQn4,GN11BQn4,GN15DQn4,GN18DQn4,GN25CQn4,GN47CQn4
8	Usability	Practitioners' emphasis on usability within software quality depends on the type of application or the model itself—users mostly lookout for code snippets that can be easy to use or adapted to their situation.			GN9CQn4,GN11CQn4,GN19DQn4,GN29AQn4,GN36FQn4
9	Portability	Practitioners who go for portability want to know if the code snippets will execute in their environment or seamlessly integrate with their operating system. This knowledge helps users access and decide if it is feasible to understand and modify the code snippet to suit their use case.			GN1BQn4,GN2BQn4,GN6CQn4,GN8AQn4,GN9CQn4,GN10GQn4,GN11CQn4,GN11DQn4,GN14EQn4,GN19DQn4,GN29AQn4,GN36FQn4,GN37DQn4
10	Compatibility	Practitioners want code snippets that will fit into their framework or projects they are currently working on, environment or operating systems.			GN11GQn4,GN36DQn4,GN43CQn4,GN42FQn4,GN44BQn4
11	Completeness	Complete code snippets can prevent the burden of looking for the additional pieces to complete code and help practitioners deliver finished products faster.			GN11FQn4,GN14BQn4,GN15CQn4,GN31BQn4,GN50BQn5